

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A light emitting device comprising:
a light emitting chip; and
a phosphor through which a first light emitting from the light emitting chip passes,
wherein the phosphor comprises a first silicate phosphor exciting a second light having a first centered emission peak using the first light and a second silicate phosphor exciting a third light having a second centered emission peak using the first light, and
wherein the first silicate phosphor has a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}^{2+}_x$ ($0 < x \leq 1$).
2. (Original) The light emitting device according to claim 1, wherein the first centered emission peak is in a range of 550 - 600 nm.
3. (Original) The light emitting device according to claim 1, wherein the second centered emission peak is in a range of 500 - 550 nm.
4. (Cancelled)
5. (Original) The light emitting device according to claim 1, wherein the second silicate phosphor has a chemical formula selected from the group consisting of $\text{Ba}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$), $\text{Ca}_{1-x}\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$) and $\text{Sr}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$).
6. (Original) The light emitting device according to claim 1, wherein the first silicate phosphor and the second silicate phosphor exist at a ratio of 1 : 1 to 1 : 9 or 9 : 1 to 1 : 1.
7. (Currently Amended) The light emitting device according to claim 1, wherein the phosphor has a particle size of $d_{90} \leq 20$ [] μm , $5 \leq d_{50} \leq 10$ [] μm .

8. (Original) The light emitting device according to claim 1, wherein the light emitting chip emits blue light.

9. (Original) The light emitting device according to claim 1, wherein the phosphor is molded in a periphery of the light emitting chip or on the light emitting chip.

10. (Original) The light emitting device according to claim 1, wherein the phosphor is manufactured by mixing the phosphor with a light transmitting resin.

11. (Original) The light emitting device according to claim 10, wherein the resin is an epoxy resin or a silicon resin.

12. (Original) The light emitting device according to claim 1, wherein the first silicate phosphor is a yellow series and the second silicate phosphor is a green series.

13. (Original) A phosphor of a light emitting device, comprising:

a first silicate phosphor excited by a light generated by a light emitting chip and having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}^{2+}_x$ ($0 < x \leq 1$); and

a second silicate phosphor excited by the light generated by the light emitting chip and having a chemical formula selected from the group consisting of $\text{Ba}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$), $\text{Ca}_{1-x}\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$) and $\text{Sr}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$).

14. (Currently Amended) A light emitting device comprising:

a substrate;

a light emitting chip emitting a light;

a connection part for electrically connecting the substrate with the light emitting chip;

a phosphor encapsulating the light emitting chip and through which the light passes;

a first silicate phosphor contained in the phosphor and having a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5:\text{Eu}^{2+}_x$ ($0 < x \leq 1$); and

a second silicate phosphor contained in the phosphor and having a chemical formula selected from the group consisting of $\text{Ba}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$), $\text{Ca}_{1-x}\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$) and $\text{Sr}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$).

15. (Original) The light emitting device according to claim 14, wherein when the light emitting device is a top view type, the first silicate phosphor and the second silicate phosphor exist at a ratio of 1 : 2 to 1 : 3.

16. (Currently Amended) The light emitting device according to claim 14, wherein when the light emitting device is a side view type, the first silicate phosphor and the second-based second silicate phosphor exist at a ratio of 1 : 3 to 1 : 4.

17. (Currently Amended) A light emitting device comprising:
a leadframe;
a light emitting chip emitting a light;
a connection part for electrically connecting the leadframe with the light emitting chip;
a phosphor encapsulating and molding the light emitting chip and through which the light passes;
a first silicate phosphor contained in the phosphor and having a chemical formula of $\text{Sr}_3\text{xSiO}_5:\text{Eu}^{2+}_x$ ($0 < x \leq 1$); and
a second silicate phosphor contained in the phosphor and having a chemical formula selected from the group consisting of $\text{Ba}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$), $\text{Ca}_{1-x}\text{MgSi}_2\text{O}_7:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$) and $\text{Sr}_{2-x}\text{SiO}_4:\text{Eu}^{2+}_x$ ($0.001 < x \leq 1$).

18. (Currently Amended) A light emitting device comprising:
a light emitting chip emitting a light; and
a resin-based phosphor through which the light emitting from the light emitting chip passes;

wherein the phosphor comprises a yellow silicate phosphor exciting a second light having a first centered emission peak using the first light and a green silicate phosphor exciting a third light having a second centered emission peak using the first light, and the green silicate phosphor and the yellow silicate phosphor exist at a ratio of 1 : 2 to 1 : 5, and

wherein the yellow silicate phosphor has a chemical formula of $\text{Sr}_{3-x}\text{SiO}_5\text{:Eu}^{2+}_x$ ($0 < x \leq 1$).

19. (Original) The light emitting device according to claim 18, wherein the phosphor is contained at a ratio of 15 - 30 wt% with respect to the base so as to emit white light.

20. (Original) The light emitting device according to claim 18, wherein the phosphor is contained at a ratio of 5 - 15 wt% with respect to the base so as to emit bluish light.